

**MAGNETIC FLOW METER WITH REFERENCE  
ELECTRODE**

**ABSTRACT**

5 An magnetic flow meter is provided which includes a  
reference electrode configured to electrically  
couple process fluid flowing within a flowtube of the  
flow meter. The reference electrode is adapted to  
measure potential of the process fluid. A current  
10 limiter is configured to limit current flow through  
the reference electrode and thereby reduce corrosion  
of the reference electrode.